INDEX TO VOLUME 41

January–December 1991

SUBJECT INDEX

Acid Precipitation
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
Benefit-cost implications of acid rain controls: an evaluation of the NAPAP integrated assessment, 914
Highlights of the Clean Air Act Amendments of 1990, 16
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Acidic Air Pollutants
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171

Adsorption
Extraction of mercury from groundwater using immobilized algae, 1387
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199

Aerosol Trajectory Model (ATM)
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702

Aerosols
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
The recovery of selenious acid aerosols on glass fiber filters, 190

Agriculture
A comparison of ozone injury to vegetation during moist and drought years, 63

Air & Waste Management Association
Guide to the 84th annual meeting & exhibition, 587

Air Emissions
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429

Air Flow Dynamics
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Air Monitoring
Ambient air arsenic levels along the Texas-Mexico Border, 827

Air Pollution
Benefit-cost implications of acid rain controls: an evaluation of the NAPAP integrated assessment, 914
CRC-APRAC vehicle emissions modeling workshop, 817
Relationship between self-reported activity levels and actual heart rates in teenagers, 942

Air Pollution Control
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038

Air Pollution Control Industry
The 1991 global air pollution control industry, 272

Air Quality
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973
On the estimation of deep nocturnal temperature inversions in mountainous areas using satellite IR skin temperature, 318
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

Air Quality Control
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079
Polar fluxgrams for air quality management, 1195

Air Quality Data
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702

Air Quality Standards
Highlights of the Clean Air Act Amendments of 1990, 16
Issues regarding the ozone air quality standards, 148
Urban air pollution in Latin America and the Caribbean, 1166

Air Quality Studies
Designing and managing the San Joaquin Valley air quality study, 1176

Air Toxics
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287

Air-to-Air Heat Exchangers (AAHX)
Effectiveness of radon control techniques in fifteen homes, 723

Algae
Extraction of mercury from groundwater using immobilized algae, 1387

Aliphatics, Unsaturated
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182

Aliphatics, Saturated
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56

Allyl Chloride
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182

Alternative Chemicals
Chlorinated solvents: will the alternative be safer?, 1055

Alternative Fuels
Commuter exposures to VOCs in Boston, Massachusetts, 1594
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615

Alternative Technologies
A comparison of in situ vitrification and rotary kiln incineration for soils treatment, 1259
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045
Demonstration of microfiltration technology, 1653
Designing treatability studies for CERCLA sites: three critical issues, 763
Extraction of mercury from groundwater using immobilized algae, 1387
Innovative technologies for contaminated site remediation: focus on bioremediation, 1657
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519

Ammonia
Effect of ammonia injection on fabric filter pressure drop, 1523
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716

Appalachian Mountains
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694

Arsenic
Ambient air arsenic levels along the Texas-Mexico Border, 827

Asbestos Containing Material
Control of incidental asbestos exposure at hazardous waste sites, 1004

Atmospheric Aerosols
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702

Atmospheric Chemistry
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182
Atmospheric chemistry of toxic contaminants. 6. Nitrosamines: dialkyl nitrosamines and nitrosomorpholine, 306

Atmospheric Pollutants
Remote sensing terminology glossary, 1489

Attainment
Annual and multi-year variability in ozone expected exceedences, 1189
Rethinking the ozone standard, 928

Australia
Effect of ammonia injection on fabric filter pressure drop, 1523
Mapping odor sources from complaint statistics I: identifying the major source, 433

Author's Guide
Journal of the Air & Waste Management Association editorial policy and author's guide to manuscript preparation, 109

Automated Timed Exposure Diffusive Sampler (TEDS)
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483

Automotive Emissions
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39

Benefit-Cost Analysis
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680

Bermuda
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429

Binational Air Quality Control Programs
Ambient air arsenic levels along the Texas-Mexico Border, 827

Biodegradable Pollutants
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045

Biofiltration
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045

Biogenic Emissions
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937

Biological Treatment
EPA SITE demonstration of Biotrol aqueous treatment system, 228

Biomedical Waste Incinerators (BMWI)
An analysis of biomedical waste incineration, 1180

Bioremediation
Innovative technologies for contaminated site remediation: focus on bioremediation, 1657

Biotrol Aqueous Treatment System
EPA SITE demonstration of Biotrol aqueous treatment system, 228

Boston, Massachusetts
Commuter exposures to VOCs in Boston, Massachusetts, 1594

California
Annual average radon concentrations in California residences, 1207
Designing and managing the San Joaquin Valley air quality study, 1176
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702

California Standards
Issues regarding the ozone air quality standards, 148

Canada
Changing attitudes about the environment in the 1990's: Sixth Canadian Environmental Government Affairs Seminar, 423
The Green Plan: a national challenge for Canada, 268

Cancer
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844

Cancer Risks
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Carbon Dioxide
A review of the role of temperate forests in the global CO_2 balance, 798
Recovering CO_2 from large- and medium-size stationary combustors, 449

Carbon Monoxide Emissions
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073

Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39

Carbon Moving Bed
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199

Carcinogens
A framework for risk characterization of environmental pollutants, 1298
Comparative analysis of health risk assessments for municipal waste combustors, 20

Catalytic Oxidation
Direct catalytic oxidation of halogenated hydrocarbons, 1129

CERCLA
Ten years of progress in the superfund program, 144

Characterization
A framework for risk characterization of environmental pollutants, 1298
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450
Control of incidental asbestos exposure at hazardous waste sites, 1004
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694

Chicago
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844

Chlorofluorocarbons
Stratospheric ozone protection: an EPA engineering perspective, 1578

Chloroprene
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182

Clean Air Act Amendments
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
Annual and multi-year variability in ozone expected exceedences, 1189
Clean air and other environmental legislation signed into law in November, 66
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844
Highlights of the Clean Air Act Amendments of 1990, 16
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922
Stratospheric ozone protection: an EPA engineering perspective, 1578
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038
The 1991 global air pollution control industry, 272

Cleanup
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446

Climate
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450
Organizing for risk oriented climate alteration research, 1570

Cloudwater
Fogwater chemistry in a wood-burning community, western Oregon, 32

Coal Burning
Effect of ammonia injection on fabric filter pressure drop, 1523

Coal-Fired Power Plants
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585

Collection Efficiency
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213

Combustion
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947
Recovering CO_2 from large- and medium-size stationary combustors, 449
Soot control during the combustion of polystyrene, 821
Stationary combustion NOx control: a summary of the 1991 symposium, 1252
Thermal and catalytic incinerators for the control of VOC's, 92

Community Involvement
Communicating the risk from radon, 1440
Designing and managing the San Joaquin Valley air quality study, 1176

Commuter Exposure
Commuter exposures to VOCs in Boston, Massachusetts, 1594

Comparisons
Comparative analysis of health risk assessments for municipal waste combustors, 20
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694
Thermal and catalytic incinerators for the control of VOC's, 92
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

Compliance
A quantitative method for evaluating incinerator test burn results, 47
Rethinking the ozone standard, 928

Computer Applications
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937

Conferences
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432

Continuous Measurement
NO_2 effect on flue gas opacity, 1098
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079

Control Technology
Effectiveness of radon control techniques in fifteen homes, 723

Control Technology Department
A comparison of in situ vitrification and rotary kiln incineration for soils treatment, 1259
Demonstration of in situ steam and hot-air stripping technology, 873
Designing treatability studies for CERCLA sites: three critical issues, 763
Development and demonstration of a pilot-scale debris washing system, 488
Direct catalytic oxidation of halogenated hydrocarbons, 1129
Effect of ammonia injection on fabric filter pressure drop, 1523
EPA SITE demonstration of Biotrol aqueous treatment system, 228
Extraction of mercury from groundwater using immobilized algae, 1387
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344
Stationary combustion NOx control: a summary of the 1991 symposium, 1252
Technological innovation in hazardous waste remediation, 347
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497
Thermal and catalytic incinerators for the control of VOC's, 92
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122

Cost Estimation
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497

Cost-Benefit Analysis
Benefit-cost implications of acid rain controls: an evaluation of the NAPAP integrated assessment, 914

Costs
Recovering CO_2 from large- and medium-size stationary combustors, 449

Critical Review
Closing Remarks, 1332
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680
Prepared discussion, 1319, 1323, 1328, 1331

Cyanide
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Debris Washing System
Development and demonstration of a pilot-scale debris washing system, 488

Decision Analysis
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680

Decontamination Methods
Development and demonstration of a pilot-scale debris washing system, 488

Deforestation
A review of the role of temperate forests in the global CO_2 balance, 798

Denver, Colorado
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39

Design
Designing and managing the San Joaquin Valley air quality study, 1176
Designing treatability studies for CERCLA sites: three critical issues, 763

Destruction and Removal Efficiency
A quantitative method for evaluating incinerator test burn results, 47

Dialkyl Nitrosamines
Atmospheric chemistry of toxic contaminants. 6. Nitrosamines: dialkyl nitrosamines and nitrosomorpholine, 306

Dibenzo Furans
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716

Dichloromethane
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Diesel Emissions
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217

Diffusion Coefficients
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967

Dioxin Contaminated Soil
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Dioxin Emissions
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605

Dispersion Models
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973

Drought Stress
A comparison of ozone injury to vegetation during moist and drought years, 63

Dry Deposition
A numerical modeling technique for estimating sulfur dioxide dry deposition due to local source emissions, 1341

Dust Cake
Effect of ammonia injection on fabric filter pressure drop, 1523

Economic Aspects
A market-based solution to the problem of nuclear and toxic waste disposal, 808
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680

Ecosystems
A review of the role of temperate forests in the global CO_2 balance, 798

Editorial Policy
Journal of the Air & Waste Management Association editorial policy and author's guide to manuscript preparation, 109

Electric Power Research Institute (EPRI)
Stationary combustion NOx control: a summary of the 1991 symposium, 1252

Electric Utilities
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Electrostatic Precipitation Technology
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Emission Controls
Direct catalytic oxidation of halogenated hydrocarbons, 1129
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605
Polar fluxgrams for air quality management, 1195
Thermal and catalytic incinerators for the control of VOC's, 92

Emission Rates
CRC-APRAC vehicle emissions modeling workshop, 817
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39

Emission Reduction
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Emissions
A numerical modeling technique for estimating sulfur dioxide dry deposition due to local source emissions, 1341
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095
An analysis of biomedical waste incineration, 1180
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716
Emissions Characterization
Comparative analysis of health risk assessments for municipal waste combustors, 20
Emissions Measurement
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39
Emissions Reduction
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
Employment Tradeoffs
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
Energy
Administration's National Energy Strategy called "comprehensive and balanced", 466
EPA and major corporations launch program to reduce national energy demand, 322
Energy Use
Organizing for risk oriented climate alteration research, 1570
Enforcement
Highlights of the Clean Air Act Amendments of 1990, 16
Engineering Bulletins
Engineering bulletins: aids to the development of remedial alternatives, 1393
Environmental Litigation Department
A farewell to caveat emptor, 902
Aiding and abetting environmental violations, 394
Lender liability at the crossroads, 6
Taking Aim at Superfund, 1286
Environmental Protection Agency (EPA)
Annual and multi-year variability in ozone expected exceedences, 1189
Demonstration of in situ steam and hot-air stripping technology, 873
Designing treatability studies for CERCLA sites: three critical issues, 763
EPA SITE demonstration of Biotrol aqueous treatment system, 228
Engineering bulletins: aids to the development of remedial alternatives, 1393
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844
Highlights of the Clean Air Act Amendments of 1990, 16
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Making cleanup decisions at hazardous waste sites: the clean sites approach, 1172
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922
Stratospheric ozone protection: an EPA engineering perspective, 1578
Technological innovation in hazardous waste remediation, 347
Ten years of progress in the superfund program, 144
The "least favored method"—A primer on the RCRA land disposal regulations, 414
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710
Twenty years of EPA: an anniversary retrospection, 140
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122
Environmental Regulations
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497
Environmental Trends Department
Manage resource damages with wetlands banks, 570
RCRA reauthorization moves to center stage, 138
WEPCo revisited: the core of clean air, 1154
Epichlorhydrin
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56
Epidemiological Studies
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483
Estimation
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937
Ethyl-t-Butyl Ether
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195
Exceedences
Annual and multi-year variability in ozone expected exceedences, 1189
Exposure Assessment
Comparative analysis of health risk assessments for municipal waste combustors, 20
Fabric Filters
Effect of ammonia injection on fabric filter pressure drop, 1523
Federal Regulations
Highlights of the Clean Air Act Amendments of 1990, 16
Twenty years of EPA: an anniversary retrospection, 140
Fiber Filters
The recovery of selenious acid aerosols on glass fiber filters, 190
Flue Gas
NO_2 effect on flue gas opacity, 1098
Recovering CO_2 from large- and medium-size stationary combustors, 449
Fluidized Beds
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585
Fly Ash
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454
Effect of ammonia injection on fabric filter pressure drop, 1523
Fogwater
Fogwater chemistry in a wood-burning community, western Oregon, 32
Forest Management
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450
Forests
A review of the role of temperate forests in the global CO_2 balance, 798
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694
Formaldehyde
Fogwater chemistry in a wood-burning community, western Oregon, 32
Fuel Additives
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195
Fuels
EPA, regulatory negotiation committee reach agreement on cleaner auto fuels, 1364
Funding
Designing and managing the San Joaquin Valley air quality study, 1176
Furan Emissions
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605
Gas Chromatography
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217
Gaseous Organic Species
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967
Gaseous Pollutants
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
Gasoline
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615
General Motors
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39
George Bush
Highlights of the Clean Air Act Amendments of 1990, 16
Global Impacts
The 1991 global air pollution control industry, 272
Global Perspectives Department
A Matter of cooperation: Dutch environmental policy in development, 1026
Between daylight and darkness, 904
Committed to meaningful action, 396
Enterprise for the Americas, 794
IUPPA - The International Union of Air Pollution Prevention Associations, 1162
Preparing for an "Earth summit", 254
Sources of funding for environmental projects in Eastern Europe, 1288
Sustainable Development and the Earth Summit, 1554
Global Pollution
A review of the role of temperate forests in the global CO_2 balance, 798
Global Warming
Motor vehicle trends and their implications for global warming, energy strategies, 200
Glossaries
Remote sensing terminology glossary, 1489
Government
Changing attitudes about the environment in the 1990's: Sixth Canadian Environmental Government Affairs Seminar, 423
Twenty years of EPA: an anniversary retrospection, 140
Government Agencies Directory
Government Agencies Directory/1991, 503
Green Plan
The Green Plan: a national challenge for Canada, 268
Greenhouse Effect
Organizing for risk oriented climate alteration research, 1570
Study measures cost effectiveness of greenhouse gas mitigation options, 1100
Greenhouse Gases
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615
Groundwater
Demonstration of microfiltration technology, 1653
EPA SITE demonstration of Biotrol aqueous treatment system, 228
Extraction of mercury from groundwater using immobilized algae, 1387
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348
Technological innovation in hazardous waste remediation, 347
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519
Halogenated Compounds
Direct catalytic oxidation of halogenated hydrocarbons, 1129
Hazardous and Solid Waste Act
Regulatory barriers to pollution prevention: a position paper of the Implementation Council of the American Institute for Pollution Prevention, 418
Hazardous Substances
Chlorinated solvents: will the alternative be safer?, 1055
Hazardous Waste Cleanup
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Making cleanup decisions at hazardous waste sites: the clean sites approach, 1172
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344
Technological innovation in hazardous waste remediation, 347
Ten years of progress in the superfund program, 144
Hazardous Waste Management
Demonstration of microfiltration technology, 1653
Engineering bulletins: aids to the development of remedial alternatives, 1393
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446

Innovative technologies for contaminated site remediation: focus on bioremediation, 1657
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348
The "least favored method"—A primer on the RCRA land disposal regulations, 414
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645

Hazardous Waste Sites
Control of incidental asbestos exposure at hazardous waste sites, 1004
Development and demonstration of a pilot-scale debris washing system, 488

Hazardous Waste Treatment
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Hazardous Wastes
Designing treatability studies for CERCLA sites: three critical issues, 763
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Health Effects
A framework for risk characterization of environmental pollutants, 1298
Ambient air arsenic levels along the Texas-Mexico Border, 827
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455
An analysis of biomedical waste incineration, 1180
Chlorinated solvents: will the alternative be safer?, 1055
Communicating the risk from radon, 1440
Commuter exposures to VOCs in Boston, Massachusetts, 1594
Control of incidental asbestos exposure at hazardous waste sites, 1004
Relationship between self-reported activity levels and actual heart rates in teenagers, 942
The Green Plan: a national challenge for Canada, 268
The odor impact model, 1360
The potential inhalation hazard posed by dioxin contaminated soil, 1334
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832
Urban air pollution in Latin America and the Caribbean, 1166

Health Risks
Annual average radon concentrations in California residences, 1207
Comparative analysis of health risk assessments for municipal waste combustors, 20

Hexachlorocyclopentadiene
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182

Historical Perspectives
Ten years of progress in the superfund program, 144
Twenty years of EPA: an anniversary retrospection, 140

Housing
Communicating the risk from radon, 1440
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Human Activity Patterns
Relationship between self-reported activity levels and actual heart rates in teenagers, 942

Human Lung Function
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455

Hydrochloric Acid (HCL)
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716

Hydrogen Chloride
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429

Implementation
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038

In Situ Vitrification
A comparison of in situ vitrification and rotary kiln incineration for soils treatment, 1259

Incineration
A comparison of in situ vitrification and rotary kiln incineration for soils treatment, 1259
An analysis of biomedical waste incineration, 1180
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716
Soot control during the combustion of polystyrene, 821
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497

Incinerators
A quantitative method for evaluating incinerator test burn results, 47
Thermal and catalytic incinerators for the control of VOC's, 92

Indoor Air Pollution
A framework for risk characterization of environmental pollutants, 1298
Annual average radon concentrations in California residences, 1207
Effectiveness of radon control techniques in fifteen homes, 723
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832

Indoor Air Quality
Communicating the risk from radon, 1440
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476
Sources and source strengths of volatile organic compounds in a new office building, 1461
Use of an indoor air quality model (IAQM) to estimate indoor ozone levels, 161

Indoor-Outdoor Air Quality Relationships
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
Use of an indoor air quality model (IAQM) to estimate indoor ozone levels, 161

Industrial Chemicals
Chlorinated solvents: will the alternative be safer?, 1055

Industrial Strategies
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922

Inhalation
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832

Inhalation Hazards
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Innovative Technologies
Demonstration of in situ steam and hot-air stripping technology, 873
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122

Inorganic Contaminants
Fogwater chemistry in a wood-burning community, western Oregon, 32

Job Training Partnership Act
Highlights of the Clean Air Act Amendments of 1990, 16

Kuwait Oil Fires
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973
U.S. interagency team proposes program to quantify effects of Kuwait oil fires, 852
U.S. interagency team releases interim report on Kuwait oil fires, 736
UNEP coordinates efforts to survey ecological devastation in Kuwait, 978

Land Disposal Regulations
The "least favored method"—A primer on the RCRA land disposal regulations, 414

Latin America
Urban air pollution in Latin America and the Caribbean, 1166

Leaching Tests
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348

Legal Briefs Department
Environmental Defense Fund v. City of Chicago, 111
Florida Power and Light Company v. Allis Chalmers Corporation, 245
In the Matter of Marine Shale Processors, Inc. Request for an Air Quality Variance, 893
Olson v. The State of Arizona and Arizona Department of Environmental Quality, 1543
State of New York v. Wisser Company, Inc., 1721
T.R.A.S.H., Ltd. and Plymouth Township v. Commonwealth of Pennsylvania, 383
The City of Fort Lauderdale v. Multidyne Medical Waste Management, Inc., 1145
United States of America v. Kayser-Roth Corporation, 779
Village of Hudson Falls v. New York State Department of Environmental Conservation and Counties of Warren and Washington Development Agency, 561
Washington State Department of Transportation v. United States Environmental Protection Agency, 1413

Legislation
Highlights of the Clean Air Act Amendments of 1990, 16
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922
The Green Plan: a national challenge for Canada, 268
The 1991 global air pollution control industry, 272

Light Scattering
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154

Limit of Detection (LOD)
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442

Major Source Locating
Mapping odor sources from complaint statistics I: identifying the major source, 433

Market Analysis
The 1991 global air pollution control industry, 272

Measurement Techniques
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067
Predicting potential sound levels: a case study in an urban area, 1355
Remote sensing terminology glossary, 1489
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432

Medical Waste
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Mercury
Extraction of mercury from groundwater using immobilized algae, 1387

Metal Bearing Wastes
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Meteorological Effects
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450
Rethinking the ozone standard, 928

Meteorology
A numerical modeling technique for estimating sulfur dioxide dry deposition due to local source emissions, 1341
Designing and managing the San Joaquin Valley air quality study, 1176

Method Evaluation
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287

Methodology
A framework for risk characterization of environmental pollutants, 1298
Canister-based method for monitoring VOCs in ambient air, 1308

Methyl Bromide
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56

Mexico
Ambient air arsenic levels along the Texas-Mexico Border, 827

Microcomputer Software Reviews
Audit Master Version 3.02, 75
Chemtox Database, Release I, 198
Environmental Series Infobase, 735
Graftool Version 3.3, 1099
MapInfo for Windows Version 1.1, 1363
MapViewer, Version 1.0, 321
OAQPS Technology Transfer Network Bulletin Board, 1221
REG-A-DEX, 464

Microfiltration
Demonstration of microfiltration technology, 1653

Microorganisms
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454
Innovative technologies for contaminated site remediation: focus on bioremediation, 1657

Mitigation
Communicating the risk from radon, 1440

Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Mobile Sources
Highlights of the Clean Air Act Amendments of 1990, 16
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432

Modeling
A numerical modeling technique for estimating sulfur dioxide dry deposition due to local source emissions, 1341
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455
Comparative analysis of health risk assessments for municipal waste combustors, 20
CRC-APRAC vehicle emissions modeling workshop, 817
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429
Mapping odor sources from complaint statistics I: identifying the major source, 433
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585
Source apportionment with site specific source profiles, 294
The odor impact model, 1360
The potential inhalation hazard posed by dioxin contaminated soil, 1334
Use of an indoor air quality model (IAQM) to estimate indoor ozone levels, 161
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

Monitoring
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442
Canister-based method for monitoring VOCs in ambient air, 1308
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154
Relationship between self-reported activity levels and actual heart rates in teenagers, 942
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432
The recovery of selenious acid aerosols on glass fiber filters, 190

Monitoring Studies
Commuter exposures to VOCs in Boston, Massachusetts, 1594

Montreal Protocol
Stratospheric ozone protection: an EPA engineering perspective, 1578

Motor Vehicles
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312

Mountainous Regions
On the estimation of deep nocturnal temperature inversions in mountainous areas using satellite IR skin temperature, 318

Municipal Waste
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716

Municipal Waste Combustion (MWC)
Comparative analysis of health risk assessments for municipal waste combustors, 20

Municipal Waste Incinerator
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429

Mutagenicity
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

National Acid Precipitation Assessment Program (NAPAP)
Benefit-cost implications of acid rain controls: an evaluation of the NAPAP integrated assessment, 914

National Ambient Air Quality Standards (NAAQS)
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455
Annual and multi-year variability in ozone expected exceedences, 1189
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702
Issues regarding the ozone air quality standards, 148
Use of an indoor air quality model (IAQM) to estimate indoor ozone levels, 161

National Priorities List (NPL)
Ten years of progress in the superfund program, 144

News Focus Department
Administration's National Energy Strategy called "comprehensive and balanced", 466
Clean air and other environmental legislation signed into law in November, 66
EPA and major corporations launch program to reduce national energy demand, 322
EPA issues final rule designed to improve visibility in Grand Canyon, 1496
EPA, regulatory negotiation committee reach agreement on cleaner auto fuels, 1364
Motor vehicle trends and their implications for global warming, energy strategies, 200
Study measures cost effectiveness of greenhouse gas mitigation options, 1100
Technological transformation called key to reconciliation of growth, environment, 1222
U.S. interagency team proposes program to quantify effects of Kuwait oil fires, 852
U.S. interagency team releases interim report on Kuwait oil fires, 736
UNEP coordinates efforts to survey ecological devastation in Kuwait, 978

Newsletters
EPRI Newsletter, 139, 584, 1036, 1422
IGCI Newsletter, 8, 406, 912, 1292
MVMA Newsletter, 266, 796, 1164, 1566
Report from Canada, 132, 392, 788, 1024, 1284, 1552
Washington Report, 4, 130, 252, 390, 568, 786, 900, 1022, 1152, 1282, 1420, 1550

Nitric Oxide
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973

Nitrogen Dioxide
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483
NO_2 effect on flue gas opacity, 1098

Nitrogen Oxides
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716
Stationary combustion NOx control: a summary of the 1991 symposium, 1252

Nitrosamines
Atmospheric chemistry of toxic contaminants. 6. Nitrosamines: dialkyl nitrosamines and nitrosomorpholine, 306

Nitrosomorpholine
Atmospheric chemistry of toxic contaminants. 6. Nitrosamines: dialkyl nitrosamines and nitrosomorpholine, 306

Nocturnal Temperature Inversions
On the estimation of deep nocturnal temperature inversions in mountainous areas using satellite IR skin temperature, 318

Noise Pollution
Predicting potential sound levels: a case study in an urban area, 1355

Nonattainment
Issues regarding the ozone air quality standards, 148
Rethinking the ozone standard, 928
Source apportionment with site specific source profiles, 294

Nonmethane Hydrocarbons
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937

Odor Measurement
Mapping odor sources from complaint statistics I: identifying the major source, 433
The odor impact model, 1360

Office Buildings
Sources and source strengths of volatile organic compounds in a new office building, 1461

Office Machines
Sources and source strengths of volatile organic compounds in a new office building, 1461

Ohio
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956

On-Site Treatment
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Opacity Meter
NO_2 effect on flue gas opacity, 1098

Operating Conditions
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Oregon
Fogwater chemistry in a wood-burning community, western Oregon, 32

Organic Composition
Fogwater chemistry in a wood-burning community, western Oregon, 32

Oxygenates
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Ozone
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450
Issues regarding the ozone air quality standards, 148
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432

Ozone Standard
Rethinking the ozone standard, 928

Ozone, Indoor
Use of an indoor air quality model (IAQM) to estimate indoor ozone levels, 161

Ozone, Photochemical
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Ozone, Stratospheric
Stratospheric ozone protection: an EPA engineering perspective, 1578

Ozone, Tropospheric
A comparison of ozone injury to vegetation during moist and drought years, 63
Annual and multi-year variability in ozone expected exceedences, 1189

Pacific Northwest
Fogwater chemistry in a wood-burning community, western Oregon, 32

Paint
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199

Particulate Characteristics
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154

Particulate Control
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Particulates
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217

Particulate Measurements
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079

Particulate Organic Matter (POM)
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Particulate Size
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967
Pentachlorophenol (PCP)
EPA SITE demonstration of Biotrol aqueous treatment system, 228
Permitting/Enforcement
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038
Phosgene
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56
Phytotoxic Air Pollutants
A comparison of ozone injury to vegetation during moist and drought years, 63
Plant Response
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460
Plumes
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973
PM-10
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079
Source apportionment with site specific source profiles, 294
Polar Fluxgrams
Polar fluxgrams for air quality management, 1195
Policy Decision Making
Benefit-cost implications of acid rain controls: an evaluation of the NAPAP integrated assessment, 914
Pollutant Concentration
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312
Pollution Abatement
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680
Pollution Prevention
Regulatory barriers to pollution prevention: a position paper of the Implementation Council of the American Institute for Pollution Prevention, 418
Polychlorinated Dibenzo Dioxins
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716
Polycyclic Aromatic Hydrocarbons (PAH)
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276
Polystyrene
Soot control during the combustion of polystyrene, 821
PONG2 (Point Origin of Nuisance Gases)
Mapping odor sources from complaint statistics I: identifying the major source, 433
Power Plants
Effect of ammonia injection on fabric filter pressure drop, 1523
Stationary combustion NOx control: a summary of the 1991 symposium, 1252
Prediction
Predicting potential sound levels: a case study in an urban area, 1355
Product Guide
Product Guide/1991, 361
Products of Incomplete Combustion (PICs)
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605
Programmable Gas Dispensing System
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460
Public Health
Comparative analysis of health risk assessments for municipal waste combustors, 20
Public Participation
A market-based solution to the problem of nuclear and toxic waste disposal, 808
Publicly-Owned Treatment Works
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838
Radon
Annual average radon concentrations in California residences, 1207
Communicating the risk from radon, 1440
Effectiveness of radon control techniques in fifteen homes, 723
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476
Receptor Modeling
Source apportionment with site specific source profiles, 294
Refrigeration
Stratospheric ozone protection: an EPA engineering perspective, 1578
Regulation
Control of incidental asbestos exposure at hazardous waste sites, 1004
Direct catalytic oxidation of halogenated hydrocarbons, 1129
Predicting potential sound levels: a case study in an urban area, 1355
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922
Regulatory barriers to pollution prevention: a position paper of the Implementation Council of the American Institute for Pollution Prevention, 418
Rethinking the ozone standard, 928
The Green Plan: a national challenge for Canada, 268
The "least favored method"—A primer on the RCRA land disposal regulations, 414
Regulatory Policy
Chlorinated solvents: will the alternative be safer?, 1055
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038
Remedial Alternatives
Engineering bulletins: aids to the development of remedial alternatives, 1393
Remediation
Innovative technologies for contaminated site remediation: focus on bioremediation, 1657
Technological innovation in hazardous waste remediation, 347
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519
Remedy Selection
Making cleanup decisions at hazardous waste sites: the clean sites approach, 1172
Remote Sensing Measurements
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39
Remote Sensing Systems
Remote sensing terminology glossary, 1489
Research and Development
Innovative technologies for contaminated site remediation: focus on bioremediation, 1657
Stratospheric ozone protection: an EPA engineering perspective, 1578
Research Programs
Organizing for risk oriented climate alteration research, 1570
Research Triangle Park, North Carolina
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154
Residual Organic Substance Emissions (ROSEs)
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947
Resource Conservation and Recovery Act (RCRA)
Regulatory barriers to pollution prevention: a position paper of the Implementation Council of the American Institute for Pollution Prevention, 418
The "least favored method"—A primer on the RCRA land disposal regulations, 414
Respirable Particulates
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967
Respiratory Health
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
Respiratory System
Relationship between self-reported activity levels and actual heart rates in teenagers, 942
Reverse Dutch Auction Process
A market-based solution to the problem of nuclear and toxic waste disposal, 808
Risk Assessment
A framework for risk characterization of environmental pollutants, 1298
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442
Annual average radon concentrations in California residences, 1207
Communicating the risk from radon, 1440
Comparative analysis of health risk assessments for municipal waste combustors, 20
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446
Organizing for risk oriented climate alteration research, 1570
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832
Roadways
Wind tunnel modeling of roadways: comparison with mathematical models, 1469
Rotary Kilns
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084
Rural-Remote Sites
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450
Sampling
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095
Annual average radon concentrations in California residences, 1207
Canister-based method for monitoring VOCs in ambient air, 1308
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601
Sources and source strengths of volatile organic compounds in a new office building, 1461
The recovery of selenious acid aerosols on glass fiber filters, 190
San Francisco
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276
Satellite IR Skin Temperature
On the estimation of deep nocturnal temperature inversions in mountainous areas using satellite IR skin temperature, 318
Scrubbers
The 1991 global air pollution control industry, 272
Seasonal Effects
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
Issues regarding the ozone air quality standards, 148
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276
Selective Ion Monitoring (SIM)
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287
Selenium
The recovery of selenious acid aerosols on glass fiber filters, 190
Sewage Sludge
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838
SITE Program Demonstration
EPA SITE demonstration of Biotrol aqueous treatment system, 228
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348
Ten years of progress in the superfund program, 144
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645
Site Specific Source Profiles
Source apportionment with site specific source profiles, 294
Siting
A market-based solution to the problem of nuclear and toxic waste disposal, 808
Socioeconomic Aspects
Urban air pollution in Latin America and the Caribbean, 1166
Soil
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519
Soil Beds
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045
Solid Waste
Comparative analysis of health risk assessments for municipal waste combustors, 20
Solidification/Stabilization
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348
Solvents
Chlorinated solvents: will the alternative be safer?, 1055

Soot Control
Soot control during the combustion of polystyrene, 821
Sound
Predicting potential sound levels: a case study in an urban area, 1355
Source Apportionment
Source apportionment with site specific source profiles, 294
Source Reduction
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122
Source-Receptor Relationship
Polar fluxgrams for air quality management, 1195
Southern California
CRC-APRAC vehicle emissions modeling workshop, 817
Spectrometers
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062
Spiking
A quantitative method for evaluating incinerator test burn results, 47
Stabilization
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
State Implementation Plans
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922
Stationary Sources
Recovering CO_2 from large- and medium-size stationary combustors, 449
Steam
Demonstration of in situ steam and hot-air stripping technology, 873
Subslab Depressurization Techniques
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476
Subsurface Ventilation (SSV)
Effectiveness of radon control techniques in fifteen homes, 723
Sulfur Dioxide
A numerical modeling technique for estimating sulfur dioxide dry deposition due to local source emissions, 1341
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585
Superfund
Demonstration of in situ steam and hot-air stripping technology, 873
Designing treatability studies for CERCLA sites: three critical issues, 763
Engineering bulletins: aids to the development of remedial alternatives, 1393
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Making cleanup decisions at hazardous waste sites: the clean sites approach, 1172
Ten years of progress in the superfund program, 144
The "least favored method"—A primer on the RCRA land disposal regulations, 414
Sustainable Development
The Green Plan: a national challenge for Canada, 268
Tap Water
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832
Tapered Element Microbalance Technology (TEOM R)
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079
Technological Transformation
Technological transformation called key to reconciliation of growth, environment, 1222
Technology Demonstration
Development and demonstration of a pilot-scale debris washing system, 488
Technology Development
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585
Technology Evaluation
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645
Technology Innovation
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344
Technological innovation in hazardous waste remediation, 347
Tedlar Bag Sampling System
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095
Temperature
Annual and multi-year variability in ozone expected exceedences, 1189
Organizing for risk oriented climate alteration research, 1570
Test Burns
A quantitative method for evaluating incinerator test burn results, 47
Test Methods
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454
Issues regarding the ozone air quality standards, 148
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154
Texas
Ambient air arsenic levels along the Texas-Mexico Border, 827
Thermal Treatment Processes
A comparison of in situ vitrification and rotary kiln incineration for soils treatment, 1259
Thermodynamic Equilibrium
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947
Toll Booths
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601
Total Suspended Particulates
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429
Toxic Air Pollutants
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182
Atmospheric chemistry of toxic contaminants. 6. Nitrosamines: dialkyl nitrosamines and nitrosomorpholine, 306
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045
Canister-based method for monitoring VOCs in ambient air, 1308
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432
Toxic Compounds
The recovery of selenious acid aerosols on glass fiber filters, 190
Toxic Emissions
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199
Toxic Organic Compounds
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095
Toxic Organic Materials
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838
Toxicity Characteristic Leaching Procedure (TCLP)
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88
Toxics
Development and demonstration of a pilot-scale debris washing system, 488
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213
Traffic Effects
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601
Traffic Speed
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312
Training
The 1991 global air pollution control industry, 272
Treatment Technology
Designing treatability studies for CERCLA sites: three critical issues, 763
Treatment, Storage and Disposal
The "least favored method"—A primer on the RCRA land disposal regulations, 414
Trichloroethyene
The transfer of trichlorethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832
Turbulent Diffusion
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312
U.S. Congress
Highlights of the Clean Air Act Amendments of 1990, 16
Underground Parking Garage
Sources and source strengths of volatile organic compounds in a new office building, 1461
Urban Air Pollution
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844
Urban air pollution in Latin America and the Caribbean, 1166
Urban Planning
Wind tunnel modeling of roadways: comparison with mathematical models, 1469
Vegetation
A comparison of ozone injury to vegetation during moist and drought years, 63
Vehicle Emissions
CRC-APRAC vehicle emissions modeling workshop, 817
Vehicle Wake Theory
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312
Vehicular Emissions
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39
Vinylidene Chloride
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182
Visibility
EPA issues final rule designed to improve visibility in Grand Canyon, 1496
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154
VOC Controls
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199
VOC Emissions
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045
Volatile Organic Compounds (VOC)
Canister-based method for monitoring VOCs in ambient air, 1308
Commuter exposures to VOCs in Boston, Massachusetts, 1594
Demonstration of in situ steam and hot-air stripping technology, 873
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287
Sources and source strengths of volatile organic compounds in a new office building, 1461
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832
Thermal and catalytic incinerators for the control of VOC's, 92
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519
Waste Disposal
A market-based solution to the problem of nuclear and toxic waste disposal, 808
Soot control during the combustion of polystyrene, 821
Thermal and catalytic incinerators for the control of VOCs, 92
Waste Management
An analysis of biomedical waste incineration, 1180
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344
Waste Management News
A national medical waste management policy "still unclear" according to OTA report, 790
Analyst questions law requiring state capacity assurance guarantees, 134
Diaper industry workshop identifies research needs to minimize environmental impacts, 1294
Dramatic growth forecast for recycled consumer-discarded plastics industry, 398
EPA announces comprehensive federal standards for municipal solid waste landfills, 1424
EPA proposes air emissions standards for large solid waste landfills, 906

EPA-requested workshop identifies research priorities for bioremediation technologies, 1156
IAEA member states adopt code of practice to prevent dumping of radioactive wastes, 574
Management of infectious waste called regulation-driven growth industry, 1028
Record new waste to energy capacity built in 1990 joins 128 existing plants, 10
Study says states depend upon each other for management of hazardous waste, 256

Waste Minimization
Regulatory barriers to pollution prevention: a position paper of the Implementation Council of the American Institute for Pollution Prevention, 418
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122

Waste Reduction Innovative Technology Evaluation (WRITE)
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122

Wastewater
Demonstration of microfiltration technology, 1653

Water-to-Air Transfer
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832

West Virginia
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450

Wilderness
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450

Wind Effects
Polar fluxgrams for air quality management, 1195

Wind Tunnel Modeling
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

Wood-Burning
Fogwater chemistry in a wood-burning community, western Oregon, 32

Wood-Burning Heaters
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073

Xylene
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Zinc Removal
Demonstration of microfiltration technology, 1653

AUTHOR INDEX

Acharya, P.
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605

Al-Dhowalia, K. H.
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973

Alders, H.
A Matter of cooperation: Dutch environmental policy in development, 1026

Allen, O. B.
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460

Altman, R. F.
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Alvord, H. H.
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067

Andino, J. M.
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Arritt, R. W.
A numerical modeling technique for estimating sulfur dioxide dry deposition due to local source emissions, 1341

Atherton, R.
Annual and multi-year variability in ozone expected exceedences, 1189

Ball, J. C.
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217

Barkley, N. P.
Development and demonstration of a pilot-scale debris washing system, 488
Extraction of mercury from groundwater using immobilized algae, 1387

Bates, E.
Designing treatability studies for CERCLA sites: three critical issues, 763

Beck, R.
Effect of ammonia injection on fabric filter pressure drop, 1523

Becker, J. C.
The "least favored method"—A primer on the RCRA land disposal regulations, 414

Bennett, R. L.
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154

Bisson, D. L.
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348

Black, III, H. E.
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Blanchard, C. L.
Rethinking the ozone standard, 928

Blanschan, G. C.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Braman, R. S.
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967

Brauer, M.
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171

Brenner, R.
Prepared discussion, 1331

Broadway, J. E.
Manage resource damages with wetlands banks, 570

Bruins, R. J. F.
Comparative analysis of health risk assessments for municipal waste combustors, 20

Buonicore, A. J.
How clean is clean? Cleanup criteria for contaminated soil and groundwater, 1446

Butcher, J. T.
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601

Butler, D. A.
Relationship between self-reported activity levels and actual heart rates in teenagers, 942

Butler, J. W.
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Byers, R. L.
Regulatory barriers to pollution prevention: a position paper of the Implementation Council of the American Institute for Pollution Prevention, 418

Cadle, S. H.
CRC-APRAC vehicle emissions modeling workshop, 817
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39

Carlock, M.
CRC-APRAC vehicle emissions modeling workshop, 817

Chan, C.-C.
Commuter exposures to VOCs in Boston, Massachusetts, 1594

Chang, D. P. Y.
An analysis of biomedical waste incineration, 1180
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947

Chang, K.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Chock, D. P.
Issues regarding the ozone air quality standards, 148

Chresand, T. J.
EPA SITE demonstration of Biotrol aqueous treatment system, 228

Chung, S.-L
Soot control during the combustion of polystyrene, 821

Cichanowicz, J. E.
Stationary combustion NOx control: a summary of the 1991 symposium, 1252

Clay, D. R.
Ten years of progress in the superfund program, 144

Cobb, G. P.
Determination of multiple atmospheric diffusion coefficients using the carbon hollow tube gas chromatography method, 967

Conner, W. D.
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154

Conway, R.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Cook, C. A.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Crisp, P. T.
The recovery of selenious acid aerosols on glass fiber filters, 190

Cummings, J. B.
Technological innovation in hazardous waste remediation, 347

Cundy, V. A.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Curtis, F.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

D'Auben, D. R.
Source apportionment with site specific source profiles, 294

Daisey, J. M.
Sources and source strengths of volatile organic compounds in a new office building, 1461

Daniels, E. J.
Recovering CO_2 from large- and medium-size stationary combustors, 449

Davies, A. E.
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

de Percin, P. R.
Demonstration of in situ steam and hot-air stripping technology, 873
Designing treatability studies for CERCLA sites: three critical issues, 763
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88

DeCicco, S. G.
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605

Del Delumyea, R.
Impact of toll removal on air particulate concentration in Jacksonville, Florida, 1601

Deland, M. R.
Committed to meaningful action, 396

Dellinger, B.
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838

DeWees, W. G.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Dial, C. J.
Engineering bulletins: aids to the development of remedial alternatives, 1393

Dobbs, R. A.
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838

Doyle, J. K.
Communicating the risk from radon, 1440

Duplancic, N.
Sources of funding for environmental projects in Eastern Europe, 1288

Dutton, R. G.
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460

Edwards, P. J.
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450

Eldridge, J. W.
Direct catalytic oxidation of halogenated hydrocarbons, 1129

Ellis, J.
The recovery of selenious acid aerosols on glass fiber filters, 190

Eskridge, R. E.
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312

Evans, G. F.
Canister-based method for monitoring VOCs in ambient air, 1308

Evans, G. M.
U.S. EPA SITE demonstration of AWD Technologies' AquaDetox/SVE system, 1519

Fairley, D.
Rethinking the ozone standard, 928

Farber, R. J.
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702

Finkelman, J.
Urban air pollution in Latin America and the Caribbean, 1166

Finley, B. L.
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Fisher, A.
Communicating the risk from radon, 1440
Prepared discussion, 1319

Fisk, W. J.
Effectiveness of radon control techniques in fifteen homes, 723

Flessel, P.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Folinsbee, L. J.
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455

Fox, D. G.
A review of the role of temperate forests in the global CO_2 balance, 798

Fradkin, L.
Comparative analysis of health risk assessments for municipal waste combustors, 20

Fratt, D. B.
Comparative analysis of health risk assessments for municipal waste combustors, 20

Freilich, I. M.
Taking Aim at Superfund, 1286

Frey, H. C.
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585

Frosch, R. A.
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615

Gabriel, P. F.
Innovative technologies for contaminated site remediation: focus on bioremediation, 1657

Gadsby, K. J.
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Gatchett, A. M.
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645

Gay, Jr., B. W.
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432

Gibbs, R. E.
CRC-APRAC vehicle emissions modeling workshop, 817

Girman, J. R.
Annual average radon concentrations in California residences, 1207

Glasser, H.
An analysis of biomedical waste incineration, 1180

Glover, D. M.
Source apportionment with site specific source profiles, 294

Goodyear, S. N.
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460

Grimsrud, D. T.
Effectiveness of radon control techniques in fifteen homes, 723

Grosjean, D.
Atmospheric chemistry of toxic contaminants. 4. Saturated halogenated aliphatics: methyl bromide, epichlorhydrin, phosgene, 56
Atmospheric chemistry of toxic contaminants. 5. Unsaturated halogenated aliphatics: Allyl chloride, chloroprene, hexachlorocyclopentadiene, vinylidene chloride, 182
Atmospheric chemistry of toxic contaminants. 6. Nitrosamines: dialkyl nitrosamines and nitrosomorpholine, 306

Grosse, D. W.
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Grot, R. A.
Sources and source strengths of volatile organic compounds in a new office building, 1461

Grube, W. E.
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348

Gruenspecht, H.
Closing Remarks, 1332
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680

Guirguis, G. N.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Halberstadt, M. L.
MVMA Newsletter, 266, 796, 1164, 1566

Hale-Marie, B.
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460

Hall, R. E.
Stationary combustion NOx control: a summary of the 1991 symposium, 1252

Hammerle, R. H.
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Harris, E. F.
Engineering bulletins: aids to the development of remedial alternatives, 1393

Harrison, H.
Polar fluxgrams for air quality management, 1195

Harrison, Jr., D.
Prepared discussion, 1328

Harrje, D. T.
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Hart, G. S.
IUPPA - The International Union of Air Pollution Prevention Associations, 1162

Harten, T. M.
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122

Hassan, S. Q.
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Hayes, S. R.
Use of an indoor air quality model (IAQM) to estimate indoor ozone levels, 161

Hayward, S. B.
Annual average radon concentrations in California residences, 1207

Heidorn, K. C.
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

Hendry, K. M.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Herget, W. F.
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062

Heslin, J. S.
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956

Hickman, D. C.
An analysis of biomedical waste incineration, 1180

Hidy, G. M.
Organizing for risk oriented climate alteration research, 1570

Hobbs, B. F.
A probabilistic production costing analysis of SO_2 emissions reduction strategies for Ohio: emissions, cost, and employment tradeoffs, 956

Hodgson, A. T.
Sources and source strengths of volatile organic compounds in a new office building, 1461

Holdren, M. W.
Canister-based method for monitoring VOCs in ambient air, 1308
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213

Hopke, P. K.
Source apportionment with site specific source profiles, 294

Horstman, D. H.
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455

Houthoofd, J. M.
Engineering bulletins: aids to the development of remedial alternatives, 1393

Howell, Jr., J. S.
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922

Huang, F.-Y.
Annual average radon concentrations in California residences, 1207

Huffman, G. L.
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947

Hull, R. G.
RCRA reauthorization moves to center stage, 138

Humphries, W.
Effect of ammonia injection on fabric filter pressure drop, 1523

Inhaber, H.
A market-based solution to the problem of nuclear and toxic waste disposal, 808

Jaasma, D. R.
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073

Jackson, D. R.
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348

Jakway, A. L.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Jayanty, R. K. M.
Summary of the 1991 EPA/A&WMA International Symposium: Measurement of Toxic and Related Air Pollutants, 1432

Jeffrey, D. A.
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Jensen, T. E.
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217

Jody, B. J.
Recovering CO_2 from large- and medium-size stationary combustors, 449

Johnson, S. M.
Audit Master Version 3.02, 75
Chemtox Database, Release I, 198
Environmental Series Infobase, 735
Graftool Version 3.3, 1099
MapInfo for Windows Version 1.1, 1363
MapViewer, Version 1.0, 321
OAQPS Technology Transfer Network Bulletin Board, 1221
REG-A-DEX, 464

Kagann, R. H.
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062

Kaiser, E. W.
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Ke, H.-Q.
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067

Keeler, G. J.
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171

Kim, I.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Kittrell, J. R.
Direct catalytic oxidation of halogenated hydrocarbons, 1129

Knap, A. H.
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429

Knapp, K. T.
CRC-APRAC vehicle emissions modeling workshop, 817

Knezovich, J. P.
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832

Knoll, J. E.
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095

Kochenderfer, J. N.
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450

Kokkinos, A.
Stationary combustion NOx control: a summary of the 1991 symposium, 1252

Koustas, R. N.
Control of incidental asbestos exposure at hazardous waste sites, 1004

Koutrakis, P.
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171

Kovalick, W. W.
Technological innovation in hazardous waste remediation, 347

Ku, J. Y.
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442

Kupferle, M. J.
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

LaFleur, R. J.
Changing attitudes about the environment in the 1990's: Sixth Canadian Environmental Government Affairs Seminar, 423

Lagarias, J. S.
Designing and managing the San Joaquin Valley air quality study, 1176

Landsberger, S.
Source apportionment with site specific source profiles, 294

Larsen, E. S.
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199

Larsen, R. I.
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455

Lau, V.
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Lave, L.
Closing Remarks, 1332
Increasing the efficiency and effectiveness of environmental decisions: benefit-cost analysis and effluent fees: a critical review, 680

Lee, B.
Highlights of the Clean Air Act Amendments of 1990, 16
Washington Report, 4, 130, 252, 390, 568, 786, 900, 1022

Leese, K. E.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Lefkopoulou, M.
Commuter exposures to VOCs in Boston, Massachusetts, 1594

Lefohn, A. S.
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694

Leger, C. B.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Leonard, A.
Comparative analysis of health risk assessments for municipal waste combustors, 20

Leson, G.
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045

Lester, T. W.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Levaggi, D.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Levin, A.
Comparative analysis of health risk assessments for municipal waste combustors, 20

Levin, M. H.
Manage resource damages with wetlands banks, 570
RCRA reauthorization moves to center stage, 138
WEPCo revisited: the core of clean air, 1154

Levine, S. P.
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067

Lewis, N. M.
U.S. Environmental Protection Agency's SITE Emerging Technology Program: 1991 update, 1645

Licis, I. J.
Waste reduction technology evaluations of the U.S. EPA WRITE program, 1122

Liem, A. J.
A quantitative method for evaluating incinerator test burn results, 47

Lindau, L.
NO_2 effect on flue gas opacity, 1098

Liu, K.-S.
Annual average radon concentrations in California residences, 1207

Lloyd, A. C.
CRC-APRAC vehicle emissions modeling workshop, 817

Lowe, A.
Effect of ammonia injection on fabric filter pressure drop, 1523

Lu, C.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Lucier, A. A.
Spatial and temporal variability of ozone exposure in forested areas of the United States and Canada: 1978-1988, 694

MacNeill, J., 1554
Sustainable Development and the Earth Summit

Mansour, M. E.
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973

Martin, J. F.
Demonstration of microfiltration technology, 1653
Overview and update of the Superfund Innovative Technology Evaluation (SITE) demonstration program, 344

Mazer, S. L.
Laboratory evaluations of the thermal degradation properties of toxic materials in sewage sludge, 838

McClelland, G. H.
Communicating the risk from radon, 1440

McClenny, W. A.
Canister-based method for monitoring VOCs in ambient air, 1308
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287

McCurdy, T.
Annual and multi-year variability in ozone expected exceedences, 1189

McDonnell, W. F.
An air quality data analysis system for interrelating effects, standards, and needed source reductions: Part 11. A lognormal model relating human lung function decrease to O_3 exposure, 455

McIlvaine, R. W.
The 1991 global air pollution control industry, 272

McKone, T. E.
The transfer of trichloroethyene (TCE) from a shower to indoor air: experimental measurements and their implications, 832

Mclaughlin, S.
Changing attitudes about the environment in the 1990's: Sixth Canadian Environmental Government Affairs Seminar, 423

Michaud, J.-P.
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483

Midgett, M. R.
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095

Moed, B. A.
Annual average radon concentrations in California residences, 1207

Moilanen, G. L.
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716

Montestruc, A. N.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Moore, W. H.
Between daylight and darkness, 904

Morse, H. N.
Environmental Defense Fund v. City of Chicago, 111
Florida Power and Light Company v. Allis Chalmers Corporation, 245
In the Matter of Marine Shale Processors, Inc. Request for an Air Quality Variance, 893
Olson v. The State of Arizona and Arizona Department of Environmental Quality, 1543
State of New York v. Wisser Company, Inc., 1721
T.R.A.S.H., Ltd. and Plymouth Township v. Commonwealth of Pennsylvania, 383
The City of Fort Lauderdale v. Multidyne Medical Waste Management, Inc., 1145
United States of America v. Kayser-Roth Corporation, 779
Village of Hudson Falls v. New York State Department of Environmental Conservation and Counties of Warren and Washington Development Agency, 561
Washington State Department of Transportation v. United States Environmental Protection Agency, 1413

Mouradian, R. F.
Measurement of volatile organics at part per billion concentrations using a cold trap inlet and high speed gas chromatography, 1067

Mournighan, R. E.
An equilibrium analysis of some chlorinated hydrocarbons in stoichiometric to fuel-rich post-flame combustion environments, 947

Muir, P. S.
Fogwater chemistry in a wood-burning community, western Oregon, 32

Murphy, M. C.
Wind tunnel modeling of roadways: comparison with mathematical models, 1469

Musselman, R. C.
A review of the role of temperate forests in the global CO_2 balance, 798

Nagy, G. Z.
The odor impact model, 1360

Naugle, D. F.
A framework for risk characterization of environmental pollutants, 1298

Novak, R. G.
Factors that can influence and control the emissions of dioxins and furans from hazardous waste incinerators, 1605

Novello, D. P.
The new Clean Air Act operating permit program: EPA's proposed regulations, 1038

O'Neal, R. D.
Predicting potential sound levels: a case study in an urban area, 1355

Oehm, G. J.
The recovery of selenious acid aerosols on glass fiber filters, 190

Offen, G. R.
Issues and trends in electrostatic precipitation technology for U.S. utilities, 222

Oliver, K. D.
Canister-based method for monitoring VOCs in ambient air, 1308
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287

Orchard, D.
Report from Canada, 132, 392, 788, 1024, 1284, 1552
The Green Plan: a national challenge for Canada, 268

Ormrod, D. P.
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460

Ozkaynak, H.
Commuter exposures to VOCs in Boston, Massachusetts, 1594
Relationship between self-reported activity levels and actual heart rates in teenagers, 942

Patashnick, H.
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079

Pau, J. C.
A Tedlar bag sampling system for toxic organic compounds in source emission sampling and analysis, 1095

Paustenbach, D. J.
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Peck, S. C.
Organizing for risk oriented climate alteration research, 1570

Petersen, W. B.
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312

Pierce, T. E.
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937

Pierson, T. K.
A framework for risk characterization of environmental pollutants, 1298

Pierson, W. R.
CRC-APRAC vehicle emissions modeling workshop, 817

Pilat, M. J.
Moving bed adsorption system for control of VOCs from an aircraft painting facility, 1199

Pilinis, C.
Evaluation of the effects of emission reductions on secondary particulate matter in the South Coast Air Basin of California, 702

Pleil, J. D.
Canister-based method for monitoring VOCs in ambient air, 1308
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287

Pollack, A. J.
Multi-adsorbent preconcentration and gas chromatographic analysis of air toxics with an automated collection/analytical system, 1213

Prill, R. J.
Effectiveness of radon control techniques in fifteen homes, 723

Pyear, L. G.
Design and verification of a programmable gas dispensing system for exposing plants to dynamic concentrations of air pollutants, 460

Quackenboss, J.
A short-term diffusive sampler for nitrogen dioxide monitoring in epidemiology, 1483

Quinlan, C. W.
Direct catalytic oxidation of halogenated hydrocarbons, 1129

Rao, K. S.
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442

Rao, S. T.
Analysis of toxic air contaminant data containing concentrations below the limit of detection, 442
Turbulent diffusion behind vehicles: effect of traffic speed on pollutant concentrations, 312

Reddy, T. A.
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Rees, W. E.
Prepared discussion, 1323

Reilly, W. K.
Enterprise for the Americas, 794

Rhodes, W. J.
Stratospheric ozone protection: an EPA engineering perspective, 1578

Richert, J. F. O.
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217

Rodenhausen, G. A.
A farewell to caveat emptor, 902
Aiding and abetting environmental violations, 394
Lender liability at the crossroads, 6

Romesberg, L. J.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Romieu, I.
Urban air pollution in Latin America and the Caribbean, 1166

Rowe, D. R.
Indoor-outdoor nitric oxide and nitrogen dioxide concentrations at three sites in Riyadh, Saudi Arabia, 973

Rubin, E. S.
Benefit-cost implications of acid rain controls: an evaluation of the NAPAP integrated assessment, 914
Probabilistic evaluation of advanced SO_2/NOx control technology, 1585

Ruch, Jr., R. B.
Proactive industrial strategies for the Clean Air Act Amendments of 1990, 922

Rupprecht, E. G.
Continuous PM-10 measurements using the tapered element oscillating microbalance, 1079

Russwurm, G. M.
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062

Sarlos, T. T.
The potential inhalation hazard posed by dioxin contaminated soil, 1334

Sarno, D. J.
Making cleanup decisions at hazardous waste sites: the clean sites approach, 1172

Sawyer, S.
Long-term monitoring of the Hazcon stabilization process at the Douglasville, Pennsylvania Superfund site, 88

Schein, A.
EPRI Newsletter, 139, 584, 1036, 1422

Schulze, W. D.
Communicating the risk from radon, 1440

Sedman, C. B.
Stationary combustion NOx control: a summary of the 1991 symposium, 1252

Segal, M.
On the estimation of deep nocturnal temperature inversions in mountainous areas using satellite IR skin temperature, 318

Segall, R. R.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Sextro, R. G.
Effectiveness of radon control techniques in fifteen homes, 723
Modeling air flow dynamics in radon mitigation systems: a simplified approach, 1476

Shearer, T. L.
A comparison of in situ vitrification and rotary kiln incineration for soils treatment, 1259

Shelton, J. W.
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073

Shields, J.
Ambient air arsenic levels along the Texas-Mexico Border, 827

Shigara, R. T.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Showman, R. E.
A comparison of ozone injury to vegetation during moist and drought years, 63

Siegl, W. O.
Hydrocarbon and aldehyde emissions from an engine fueled with ethyl-t-butyl ether, 195

Simmons, J. A. K.
Estimates of ground level TSP, SO_2 and HCL for a municipal waste incinerator to be located at Tynes Bay, Bermuda, 429

Simpson, O. A.
Long-path FTIR measurements of volatile organic compounds in an industrial setting, 1062

Siu, W.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Skovronek, H. S.
EPA SITE demonstration of Biotrol aqueous treatment system, 228

Smith, D.
Designing treatability studies for CERCLA sites: three critical issues, 763

Smith, J. C.
IGCI Newsletter, 8, 406, 912, 1292

Spengler, J. D.
Commuter exposures to VOCs in Boston, Massachusetts, 1594
Indoor and outdoor concentrations of inorganic acidic aerosols and gases, 171
Relationship between self-reported activity levels and actual heart rates in teenagers, 942

Stephens, R. D.
Remote sensing measurements of carbon monoxide emissions from on-road vehicles, 39

Sterling, A. M.
Rotary kiln incineration of dichloromethane and xylene: a comparison of incinerability characteristics under various operating conditions, 1084

Stern, C. H.
A preliminary test method for masonry heater particulate matter and carbon monoxide emissions, 1073

Stinson, M. K.
EPA SITE demonstration of Biotrol aqueous treatment system, 228

Strong, M. F.
Preparing for an "Earth summit", 254

Sudbury, A. W.
Mapping odor sources from complaint statistics I: identifying the major source, 433

Summerhays, J.
Evaluation of risks from urban air pollutants in the Southeast Chicago Area, 844

Sylte, W. W.
Designing and managing the San Joaquin Valley air quality study, 1176

Takacs, L.
Simultaneous control of PCDD/PCDF, HCL and NOx emissions from municipal solid waste incinerators with ammonia injection, 716

Tapper, N. J.
Mapping odor sources from complaint statistics I: identifying the major source, 433

Taylor, M. L.
Development and demonstration of a pilot-scale debris washing system, 488

Terblanche, A. P. S.
Relationship between self-reported activity levels and actual heart rates in teenagers, 942

Tsang, S.-M.
Soot control during the combustion of polystyrene, 821

Turk, B. H.
Effectiveness of radon control techniques in fifteen homes, 723

Ungs, M. J.
The potential inhalation hazard posed by dioxin contaminated soil, 1334

van der Vaart, D. R.
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497
Thermal and catalytic incinerators for the control of VOCs, 92

Vatavuk, W. M.
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497
Thermal and catalytic incinerators for the control of VOCs, 92

Vaughan, W. M.
Remote sensing terminology glossary, 1489

Vermette, S. J.
Source apportionment with site specific source profiles, 294

Vitello, M. P.
Treatment technology evaluation for aqueous metal and cyanide bearing hazardous wastes (F007), 710

Vossler, T. L.
Optimizing sensitivity of SIM mode of GC/MS analysis for EPA's TO-14 air toxics method, 287

Waldruff, P. S.
PC-BEIS: a personal computer version of the biogenic emissions inventory system, 937

Wang, Y. Y.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Weathers, W. S.
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154

Wehe, A. H.
The cost estimation of thermal and catalytic incinerators for the control of VOCs, 497
Thermal and catalytic incinerators for the control of VOCs, 92

Weitzenfeld, H.
Urban air pollution in Latin America and the Caribbean, 1166

Wesolowski, J. J.
Seasonal variations and trends in concentrations of filter-collected polycyclic aromatic hydrocarbons (PAH) and mutagenic activity in the San Francisco Bay Area, 276

Williams, K. R.
Static leaching of solidified/stabilized hazardous waste from the Solidtech process, 1348

Williams, L. G.
Development and evaluation of a method to determine indicator microorganisms in air emissions and residue from medical waste incinerators, 1454

Wilson, M. A.
A quantitative method for evaluating incinerator test burn results, 47

Wilson, W. E.
Particulate characteristics and visual effects of the atmosphere at Research Triangle Park, 154

Winberry, W. T.
Canister-based method for monitoring VOCs in ambient air, 1308

Winer, A. M.
Biofiltration: an innovative air pollution control technology for VOC emissions, 1045

Wolf, K.
Chlorinated solvents: will the alternative be safer?, 1055

Wolff, G. T.
Impact of alternative fuels on vehicle emissions of greenhouse gases, 1615

Wolsky, A. M.
Recovering CO_2 from large- and medium-size stationary combustors, 449

Wood, F.
Characterization of ozone during consecutive drought and wet years at a rural West Virginia Site, 1450

Yates, P.
Chlorinated solvents: will the alternative be safer?, 1055

Yazdani, A.
Chlorinated solvents: will the alternative be safer?, 1055

Young, W. C.
Recovery of Ames assay mutagenicity of a polar fraction of a diesel engine particulate extract from capillary gas chromatography, 1217

Zahodiakin, P.
Washington Report, 1152, 1282, 1420, 1550